

Lowcountry Area Base Labor Market Analysis



South Carolina
Department of
Commerce
Labor Market Information

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	5
POPULATION	6
Growth.....	6
LABORSHED.....	7
Characteristics of Workers	7
INCOME	9
Per Capita Income	9
Wages by Industry	10
Wages by Occupation.....	11
EDUCATION	12
High School Graduates.....	12
Higher Education Graduates.....	13
OCCUPATIONS.....	15
Occupational Projections.....	15
Occupational Education Requirements.....	16
INDUSTRY	17
Businesses by Sector.....	17
Growth in Number of Businesses	18
Employment by Sector.....	18
Industry Analysis	19
MOVING FORWARD.....	20
Appendix A: Occupational Projections	

EXECUTIVE SUMMARY

Population

The Lowcountry area's population growth has been faster than the state's.

Future population growth is expected to continue to be faster than the state rate.

The Lowcountry area attracts workers predominantly from within its borders.

Over half live in Beaufort County.

Income

Per capita income growth has been above state and national rates.

The Lowcountry area's per capita income remains above the state level and has moved closer to the national level.

The Lowcountry area's average wages are higher than those of the state for the community and social services; arts, design, entertainment, sports and media; healthcare support; protective service; food preparation and serving related; building and grounds cleaning and maintenance; personal care and service; and farming and forestry occupational groups.

Education

The number of degrees awarded by area post-secondary institutions has increased.

The greatest increase has been in the area of healthcare.

Occupations

The following occupational groups are expected to have faster growth in the Lowcountry area than in the state

Management; business and financial operations; computer and mathematical science; architecture and engineering; community and social services; legal; arts, design, entertainment, sports and media; healthcare practitioners and technical; healthcare support; personal care and service; and sales and related.

Requirements for the Lowcountry area's workers are expected to grow in the following levels of education and experience:

Work experience in a related field; postsecondary vocational award; associate's degree; bachelor's degree; and master's degree or higher.

Industry

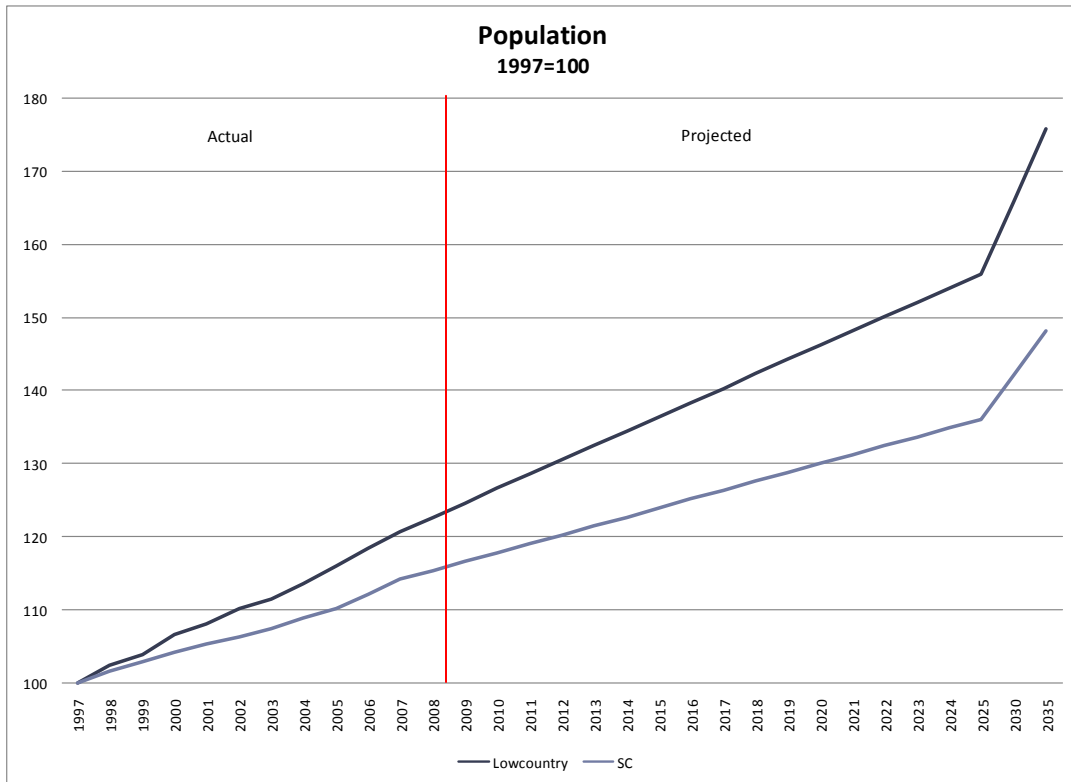
Sectors rated as having potential in various parts of the Lowcountry area are as follows:

Support activities for agriculture and forestry; construction of buildings; specialty trade contractors; wood product manufacturing; nonmetallic mineral product manufacturing; chemical manufacturing; merchant wholesalers, durable goods; truck transportation; real estate; management of companies and enterprises; professional, scientific and technical services; and ambulatory health care services.

POPULATION

Growth

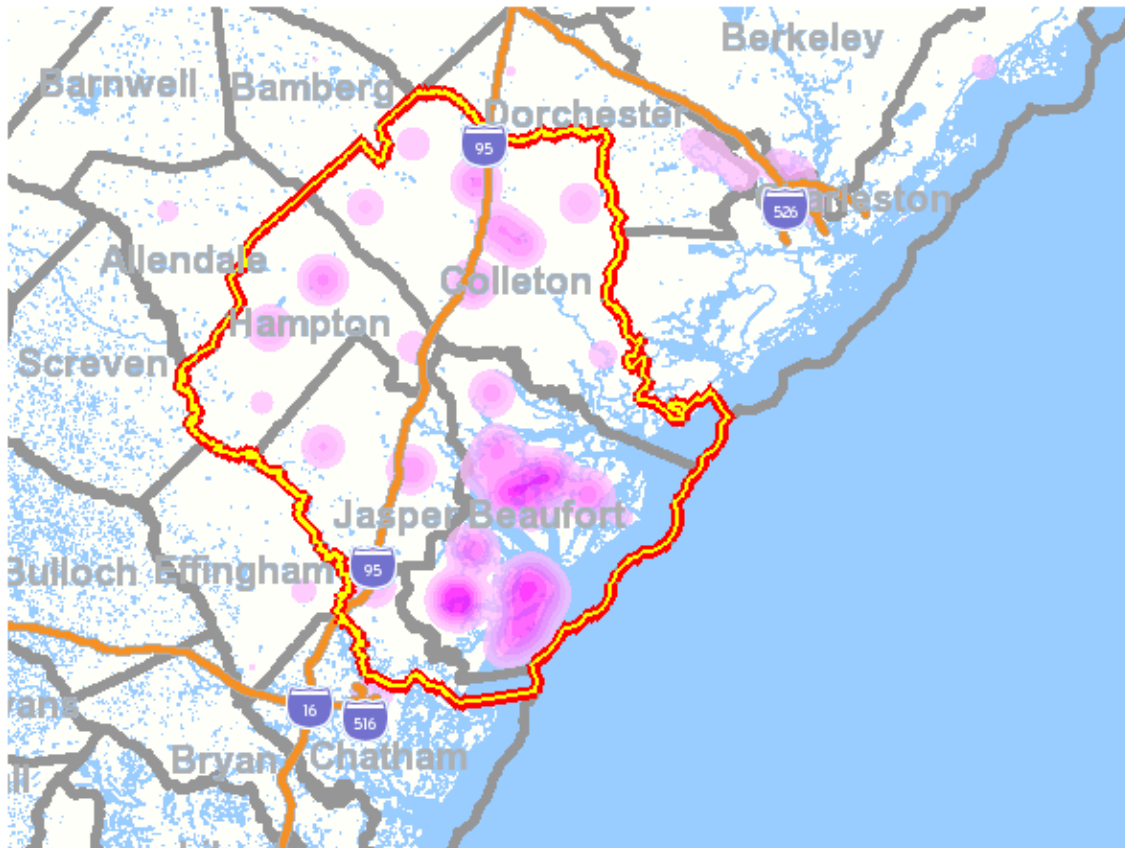
The Lowcountry area's 2007 population was 229,382. The area population has grown by 20.7% since 1997, compared to 14.2% for South Carolina. Future population growth is expected to continue to be faster than state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

LABORSHED

The map below shows where Lowcountry area workers come from (in 2006, latest available data). The Lowcountry area draws over half of its workers from Beaufort County, with over 10% coming from Colleton County.



Source: U.S. Census Bureau, Local Employment Dynamics.

Characteristics of Workers

Age of Workers:

30 or younger	27.6%
31 to 54	53.2%
55 or older	19.1%

Earnings of Workers:

\$1,200 per month or less	30.0%
\$1,201 to \$3,400 per month	45.9%
More than \$3,400 per month	24.0%

States Where Workers Live:

South Carolina	94.0%
Georgia	5.2%
All other locations	0.8%

Counties Where Workers Live:

Beaufort	58.1%
Colleton	11.5%
Hampton	5.1%
Jasper	4.3%
Charleston	3.3%
Chatham (Georgia)	2.6%
Dorchester	1.9%
Lexington	1.7%
Berkeley	1.6%
Effingham (Georgia)	0.9%
All Other Locations	8.9%

Cities Where Workers Live:

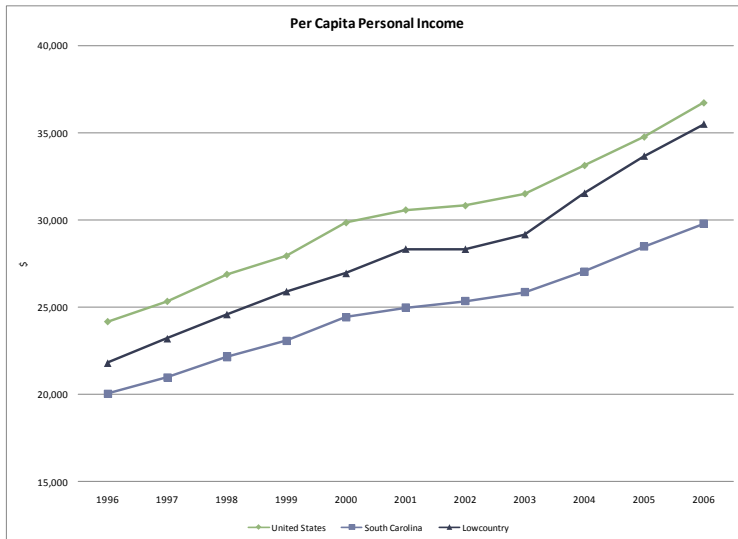
Hilton Head Island, South Carolina	18.7%
Beaufort, South Carolina	5.3%
Bluffton, South Carolina	2.7%
Port Royal, South Carolina	2.6%
Burton, South Carolina	2.2%
Walterboro, South Carolina	1.8%
North Charleston, South Carolina	1.6%
Savannah, Georgia	1.4%
Laurel Bay, South Carolina	1.3%
Hanahan, South Carolina	0.9%
All Other Locations	61.4%

Source: U.S. Census Bureau, Local Employment Dynamics.

INCOME

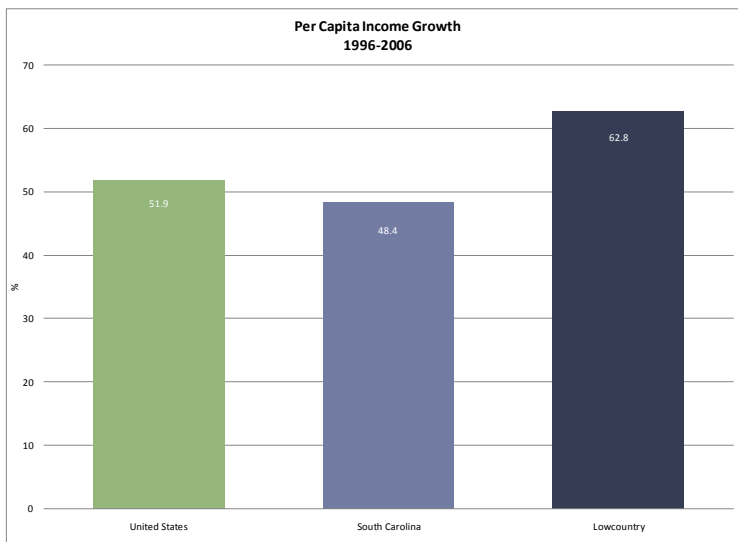
Per Capita Income

The Lowcountry area's per capita income moved farther ahead of the state level and closer to the national level from 1996 to 2006.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

As reflected above, the Lowcountry area's per capita income growth was above both South Carolina's and the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Wages by Industry

The Lowcountry area's average wages are below those of South Carolina (\$616 vs. \$680 in 2007). Average wages were up 20% in the Lowcountry area over the past five years, compared to 18% for the state. All major sectors had growth over the past five years, led by real estate and rental and leasing and transportation and warehousing.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		616	512	20
Construction	23	735	584	26
Manufacturing	31-33	703	620	13
Retail Trade	44-45	463	397	16
Transportation and Warehousing	48-49	631	465	36
Information	51	1,033	833	24
Finance and Insurance	52	1,090	858	27
Real Estate and Rental and Leasing	53	732	534	37
Administration & Support & Waste Management & Remediation Services	56	491	394	25
Arts, Entertainment, and Recreation	71	428	417	3
Accommodation and Food Services	72	329	284	16
Other Services (Except Public Administration)	81	509	446	14
Federal Government		857	700	22
State Government		661	609	9
Local Government		702	571	23

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

Wages by Occupation

Average wages in the Lowcountry area are higher than South Carolina's in the following occupational groups:

- Community and social services
- Arts, design, entertainment, sports and media
- Healthcare support
- Protective service
- Food preparation and serving related
- Building and grounds cleaning and maintenance
- Personal care and service
- Farming and forestry

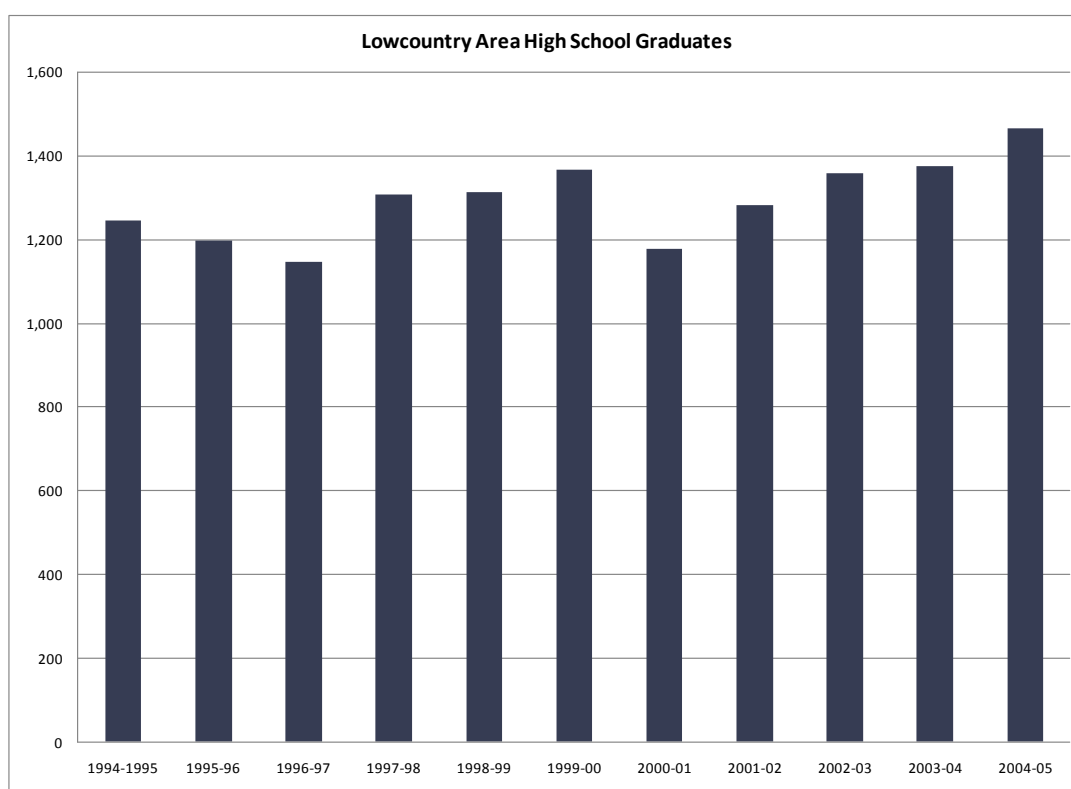
Occupation	2007 Lowcountry Area Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	22.30	28.78
Business and financial operations occupations	17.59	20.28
Computer and mathematical science occupations	22.85	26.20
Architecture and engineering occupations	23.33	30.22
Life, physical and social science occupations	21.80	22.76
Community and social services occupations	14.51	13.18
Legal occupations	24.87	30.68
Education, training and library occupations	23.63	24.42
Arts, design, entertainment, sports and media occupations	13.14	12.66
Healthcare practitioners and technical occupations	29.70	30.64
Healthcare support occupations	10.70	10.55
Protective service occupations	15.76	13.87
Food preparation and serving related occupations	8.49	7.90
Building and grounds cleaning and maintenance occupations	10.00	8.42
Personal care and service occupations	9.22	8.39
Sales and related occupations	11.63	13.48
Office and administrative support occupations	12.80	13.22
Farming, fishing, and forestry occupations	14.81	13.07
Construction and extraction occupations	15.68	16.51
Installation, maintenance and repair occupations	15.62	16.88
Production occupations	12.62	15.21
Transportation and material moving occupations	11.38	12.94

Source: Economic Modeling Specialists, Inc.

EDUCATION

High School Graduates

From 1995 to 2005 (latest data available), the number of Lowcountry area students receiving high school diplomas increased by 219—or 18%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 1,464 people received high school diplomas in the Lowcountry area in 2005. The Lowcountry area had 320 more 12th grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 70 (to 158) over the 1995-2005 period.



Source: National Center for Education Statistics.

Higher Education Graduates

Over 4,200 more students graduated from higher educational institutions in the Lowcountry area in 2006 than in 1996, an increase of 50%. The greatest numerical increase was in the healthcare field.

Program	1996	2006	Change	% Change
Agriculture, agriculture operations, and related sciences	36	31	-5	-14
Architecture and related services	42	148	106	252
Area, ethnic, cultural, and gender studies	-	8	8	
Biological and biomedical sciences	343	435	92	27
Business, management, marketing, and related support services	1,161	1,618	457	39
Communication, journalism, and related programs	153	402	249	163
Communications technologies/technicians and support services	16	270	254	1,588
Computer and information sciences and support services	184	398	214	116
Construction trades	10	34	24	240
Education	1,036	1,043	7	1
Engineering technologies/technicians	214	262	48	22
Engineering	72	67	-5	-7
English language and literature/letters	175	207	32	18
Family and consumer sciences/human sciences	163	230	67	41
Foreign languages, literatures, and linguistics	50	108	58	116
Health professions and related clinical sciences	1,705	2,637	932	55
Legal professions and studies	100	92	-8	-8
Liberal arts and sciences, general studies and humanities	505	734	229	45
Mathematics and statistics	83	63	-20	-24
Mechanic and repair technologies/technicians	178	403	225	126
Multi/interdisciplinary studies	38	118	80	211
Natural resources and conservation	8	19	11	138
Parks, recreation, leisure, and fitness studies	7	36	29	414
Personal and culinary services	107	206	99	93
Philosophy and religious studies	23	58	35	152
Physical sciences	102	120	18	18
Precision production	137	85	-52	-38
Psychology	270	334	64	24
Public administration and social service professions	139	165	26	19
Science technologies/technicians	3	-	-3	-100
Security and protective services	283	477	194	69
Social sciences and history	532	602	70	13
Theology and religious vocations	7	37	30	429
Transportation and materials moving	159	114	-45	-28
Visual and performing arts	500	1,239	739	148
TOTAL	8,541	12,800	4,259	50

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Armstrong Atlantic State University (GA), Beta Tech, Charleston Southern University, Citadel, Claxton University, College of Charleston, Denmark Technical College, Medical University of South Carolina, Miller-Motte Technical College, Orangeburg Calhoun Technical College, Savannah College of Art and Design (GA), Savannah State University (GA), Savannah Technical College (GA), South Carolina State University, South University-Savannah (GA), Southern Methodist College, Technical College of the Lowcountry, Trident Technical College, University of Phoenix-Savannah Campus (GA), University of South Carolina-Beaufort, University of South Carolina-Salkehatchie, Voorhees College.

OCCUPATIONS

Occupational Projections

The following occupational groups are projected to grow faster in the Lowcountry area than in the state:

- Management
- Business and financial operations
- Computer and mathematical science
- Architecture and engineering
- Community and social services
- Legal
- Arts, design, entertainment, sports and media
- Healthcare practitioners and technical
- Healthcare support
- Personal care and service
- Sales and related

See **Appendix A** for detailed occupational information.

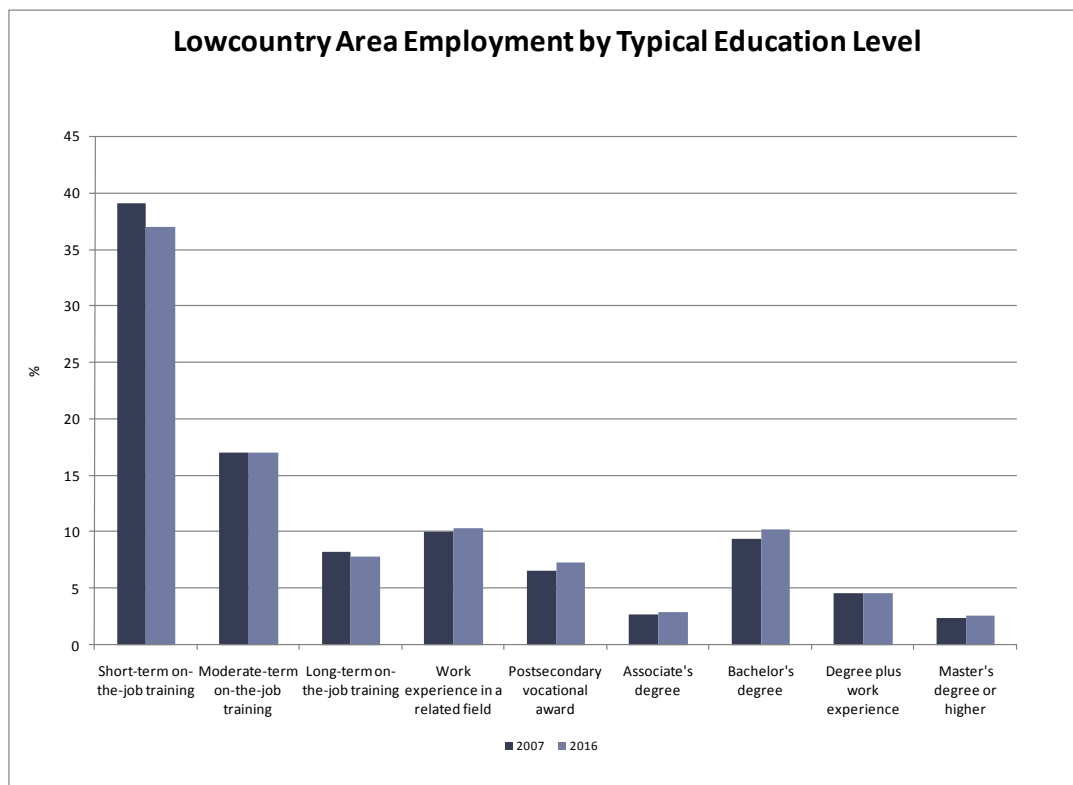
Occupation	2007-2016 Lowcountry Area Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	19	17
Business and financial operations occupations	26	22
Computer and mathematical science occupations	36	23
Architecture and engineering occupations	28	15
Life, physical and social science occupations	15	15
Community and social services occupations	16	15
Legal occupations	27	21
Education, training, and library occupations	16	16
Arts, design, entertainment, sports and media occupations	27	17
Healthcare practitioners and technical occupations	26	24
Healthcare support occupations	35	25
Protective service occupations	12	18
Food preparation and serving related occupations	5	13
Building and grounds cleaning and maintenance occupations	12	23
Personal care and service occupations	8	7
Sales and related occupations	23	19
Office and administrative support occupations	12	13
Farming, fishing, and forestry occupations	2	16
Construction and extraction occupations	8	19
Installation, maintenance and repair occupations	13	17
Production occupations	4	10
Transportation and material moving occupations	11	11

Source: *Economic Modeling Specialists, Inc.*

Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as business professionals, engineers and healthcare practitioners in the Lowcountry area. Based on employment projections, the Lowcountry area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Associate's degree
- Bachelor's degree
- Master's degree or higher



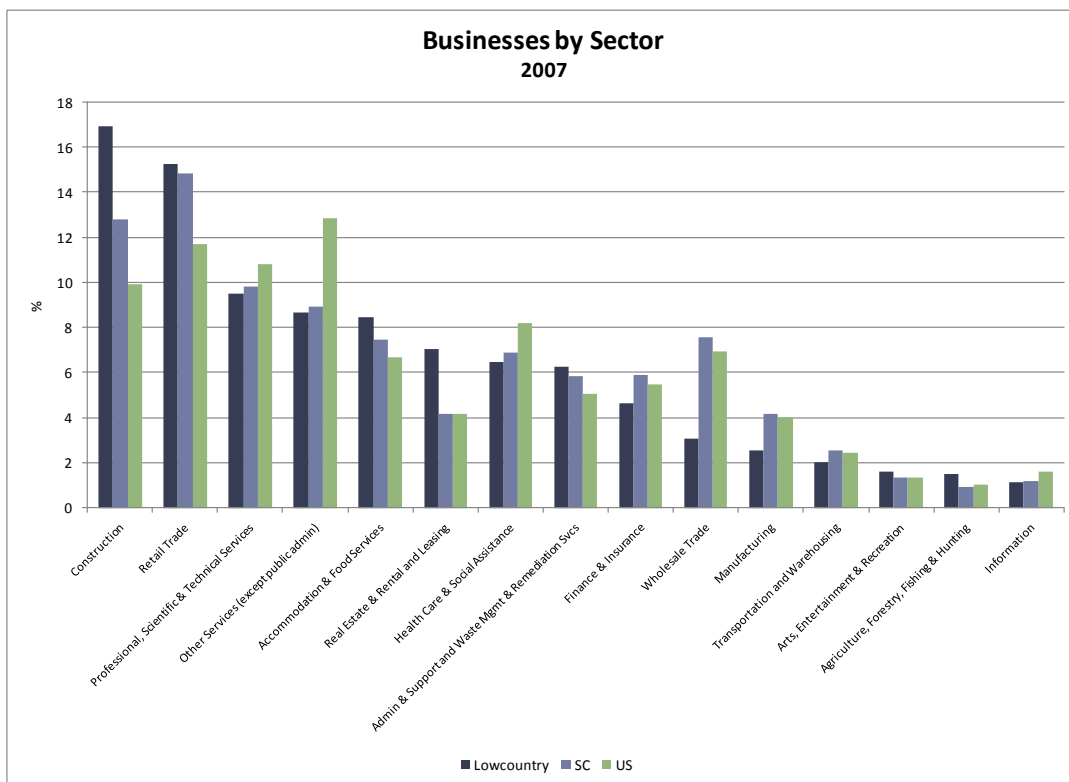
Source: Economic Modeling Specialists, Inc

INDUSTRY

Businesses by Sector

The Lowcountry area had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Construction
- Retail trade
- Accommodation and food services
- Real estate and rental and leasing
- Administration and support and waste management and remediation services
- Arts, entertainment and recreation
- Agriculture and forestry



Source: U.S. Department of Labor, Bureau of Labor Statistics.

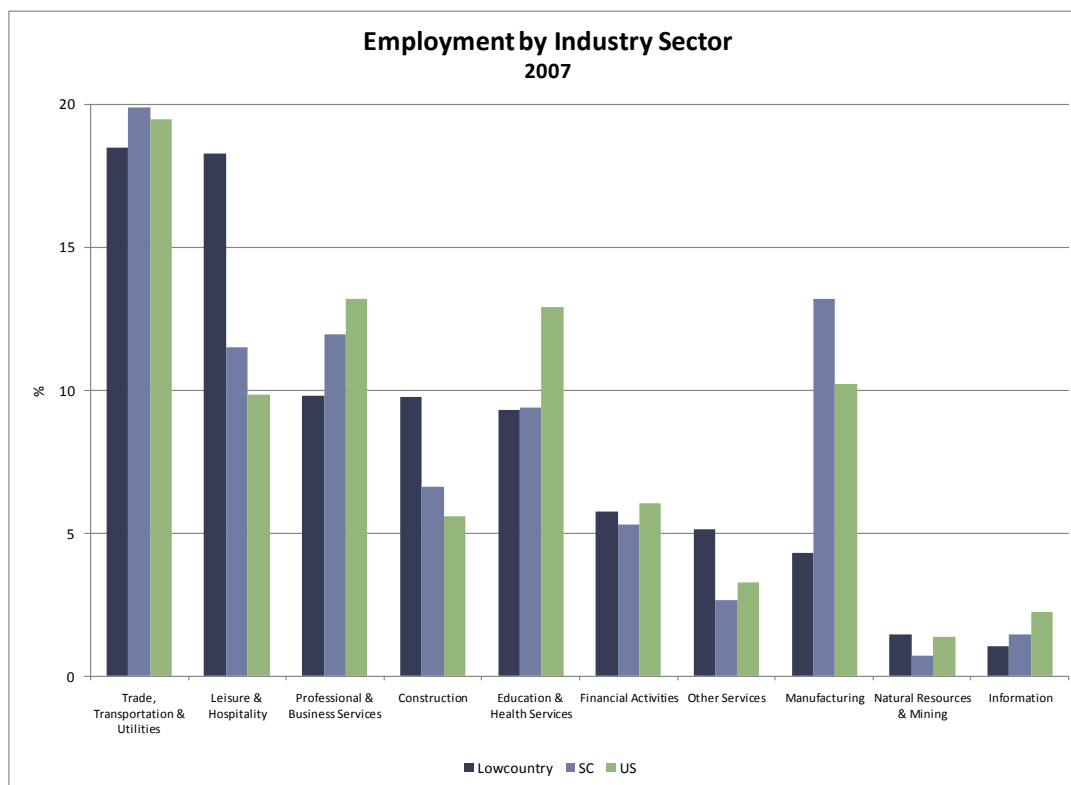
Growth in Number of Businesses

The number of private businesses in the Lowcountry area fell 1% from 2002 to 2007, compared to a 2% drop for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Lowcountry area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

Employment by Sector

Compared to South Carolina and the United States, the Lowcountry area's employment is more concentrated in leisure and hospitality, construction, other services, and natural resources and mining.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

Industry Analysis

Screening Criteria

For each county in the Lowcountry area, industry sectors with available data were rated on six factors:

- | | |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth | Competitive effect ¹ |
| • 2002-2007 employment growth rate | Average annual wage |
| • Location quotient ² | Projected growth |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

Industries of Note

Based on the analyses for each county in the Lowcountry area, the following sectors of note were identified (and the counties for which they were significant):

- Support activities for agriculture and forestry (Colleton)
- Construction of buildings (Beaufort, Colleton)
- Specialty trade contractors (Beaufort)
- Wood product manufacturing (Colleton)
- Nonmetallic mineral product manufacturing (Jasper)
- Chemical manufacturing (Colleton)
- Merchant wholesalers, durable goods (Beaufort, Jasper)
- Truck transportation (Hampton)
- Real estate (Beaufort)
- Management of companies and enterprises (Beaufort)
- Professional, scientific and technical services (Hampton)
- Ambulatory health care services (Beaufort)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

¹ *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

² *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Lowcountry area's labor market. We hope that it will help in advancing the progress of the Lowcountry area's economic development.

What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Lowcountry Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. *What is the Lowcountry area's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. *What other factors are vital to the Lowcountry area and its communities?*

Over and above pure economic considerations, what is important to the citizens of the Lowcountry area? How does Lowcountry want to be perceived? What quality of life issues affect Lowcountry? These questions may impact the types of industries desired for the area.

How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

1. Detailed Industry Analysis

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

2. Detailed Occupational Analysis

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

3. Identification of Implementable Recommendations

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

Appendix A: Occupational Projections for Lowcountry Area

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-2011	Advertising and promotions managers	34	41	7	21	0.85	27.85	Degree plus work experience
11-2021	Marketing managers	81	103	22	27	0.53	27.33	Degree plus work experience
11-2022	Sales managers	330	393	63	19	1.23	41.82	Degree plus work experience
11-2031	Public relations managers	31	37	6	19	0.75	29.04	Degree plus work experience
11-3011	Administrative services managers	253	289	36	14	1.39	27.48	Degree plus work experience
11-3021	Computer and information systems managers	47	61	14	30	0.22	33.53	Degree plus work experience
11-3031	Financial managers	357	434	77	22	0.72	27.10	Degree plus work experience
11-3041	Compensation and benefits managers	25	30	5	20	0.71	32.50	Degree plus work experience
11-3042	Training and development managers	34	41	7	21	1.37	32.52	Degree plus work experience
11-3049	Human resources managers, all other	29	34	5	17	0.63	37.95	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-3051	Industrial production managers	30	29	-1	-3	0.27	30.77	Work experience in a related field
11-3061	Purchasing managers	23	25	2	9	0.48	38.54	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	36	46	10	28	0.47	27.80	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	227	236	9	4	0.61	12.99	Degree plus work experience
11-9012	Farmers and ranchers	836	816	-20	-2	0.67	6.55	Long-term on-the-job training
11-9021	Construction managers	659	759	100	15	1.21	18.97	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	73	83	10	14	0.73	13.90	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	77	91	14	18	0.35	34.82	Degree plus work experience
11-9033	Education administrators, postsecondary	51	68	17	33	0.38	26.93	Degree plus work experience
11-9039	Education administrators, all other	48	57	9	19	0.63	23.41	Degree plus work experience
11-9041	Engineering managers	103	130	27	26	0.75	33.10	Degree plus work experience
11-9051	Food service managers	389	455	66	17	1.18	14.50	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-9061	Funeral directors	18	17	-1	-6	0.83	29.68	Associate's degree
11-9081	Lodging managers	169	199	30	18	1.58	28.48	Work experience in a related field
11-9111	Medical and health services managers	193	236	43	22	0.86	38.22	Degree plus work experience
11-9131	Postmasters and mail superintendents	27	25	-2	-7	1.44	28.79	Work experience in a related field
11-9141	Property, real estate, and community association managers	1,161	1,738	577	50	1.36	11.28	Bachelor's degree
11-9151	Social and community service managers	85	96	11	13	0.78	17.15	Bachelor's degree
11-9199	Managers, all other	849	1,057	208	24	0.71	12.92	Work experience in a related field
11-1011	Chief executives	853	1,038	185	22	1.05	29.71	Degree plus work experience
11-1021	General and operations managers	1,434	1,519	85	6	1.10	34.43	Degree plus work experience
11-1031	Legislators	66	72	6	9	1.48	9.14	Degree plus work experience
13-1011	Agents and business managers of artists, performers, and athletes	16	21	5	31	0.51	6.75	Degree plus work experience
13-1022	Wholesale and retail buyers, except farm products	73	83	10	14	0.61	29.10	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1023	Purchasing agents, except wholesale, retail, and farm products	132	134	2	2	0.62	19.85	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	39	40	1	3	0.18	26.81	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	10	12	2	20	0.46	16.25	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	77	74	-3	-4	0.45	14.87	Long-term on-the-job training
13-1051	Cost estimators	143	168	25	17	0.81	21.69	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	43	54	11	26	0.28	16.13	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	21	26	5	24	0.24	19.61	Bachelor's degree
13-1073	Training and development specialists	62	76	14	23	0.39	18.01	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	53	63	10	19	0.31	21.68	Bachelor's degree
13-1081	Logisticians	18	20	2	11	0.27	24.79	Bachelor's degree
13-1111	Management analysts	528	637	109	21	0.73	22.42	Degree plus work experience
13-1121	Meeting and convention planners	98	113	15	15	1.46	16.02	Bachelor's degree
13-1199	Business operation specialists, all other	159	191	32	20	0.21	23.84	Bachelor's degree
13-2011	Accountants and auditors	826	1,036	210	25	0.72	17.41	Bachelor's degree
13-2021	Appraisers and assessors of real estate	438	654	216	49	1.41	13.14	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-2041	Credit analysts	21	21	0	0	0.40	20.45	Bachelor's degree
13-2051	Financial analysts	86	131	45	52	0.32	9.54	Bachelor's degree
13-2052	Personal financial advisors	423	634	211	50	0.80	12.65	Bachelor's degree
13-2053	Insurance underwriters	15	16	1	7	0.19	24.39	Bachelor's degree
13-2071	Loan counselors	23	23	0	0	0.59	18.70	Bachelor's degree
13-2072	Loan officers	143	151	8	6	0.52	26.31	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	40	40	0	0	0.84	15.46	Bachelor's degree
13-2082	Tax preparers	230	283	53	23	2.66	8.30	Moderate-term on-the-job training
13-2099	Financial specialists, all other	72	70	-2	-3	0.60	19.46	Bachelor's degree
15-1011	Computer and information scientists, research	17	24	7	41	0.33	23.31	Doctoral degree
15-1021	Computer programmers	103	123	20	19	0.30	23.30	Bachelor's degree
15-1031	Computer software engineers, applications	28	44	16	57	0.07	24.69	Bachelor's degree
15-1032	Computer software engineers, systems software	29	44	15	52	0.10	24.14	Bachelor's degree
15-1041	Computer support specialists	137	171	34	25	0.33	18.82	Associate's degree
15-1051	Computer systems analysts	48	70	22	46	0.13	25.35	Bachelor's degree
15-1061	Database administrators	22	30	8	36	0.24	22.25	Bachelor's degree
15-1071	Network and computer systems administrators	64	88	24	38	0.26	22.08	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
15-1081	Network systems and data communications analysts	125	191	66	53	0.58	23.17	Bachelor's degree
15-1099	Computer specialists, all other	50	68	18	36	0.31	28.41	Associate's degree
15-2031	Operations research analysts	20	23	3	15	0.43	25.01	Master's degree
17-1011	Architects, except landscape and naval	54	69	15	28	0.47	22.42	Bachelor's degree
17-1012	Landscape architects	109	119	10	9	2.11	22.36	Bachelor's degree
17-1022	Surveyors	78	115	37	47	1.74	16.77	Bachelor's degree
17-2041	Chemical engineers	10	12	2	20	--	--	Bachelor's degree
17-2051	Civil engineers	171	230	59	35	0.79	34.10	Bachelor's degree
17-2061	Computer hardware engineers	16	21	5	31	0.26	15.30	Bachelor's degree
17-2071	Electrical engineers	34	43	9	26	0.30	33.69	Bachelor's degree
17-2072	Electronics engineers, except computer	31	35	4	13	0.30	26.45	Bachelor's degree
17-2081	Environmental engineers	17	25	8	47	0.45	26.07	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	23	28	5	22	1.17	27.76	Bachelor's degree
17-2112	Industrial engineers	43	57	14	33	0.29	28.36	Bachelor's degree
17-2131	Materials engineers	13	14	1	8	0.78	14.28	Bachelor's degree
17-2141	Mechanical engineers	38	48	10	26	0.23	22.68	Bachelor's degree
17-2161	Nuclear engineers	26	28	2	8	1.23	31.31	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-2199	Engineers, all other	40	44	4	10	0.31	21.33	Bachelor's degree
17-3011	Architectural and civil drafters	33	41	8	24	0.37	15.19	Postsecondary vocational award
17-3012	Electrical and electronics drafters	18	21	3	17	0.61	21.46	Postsecondary vocational award
17-3013	Mechanical drafters	33	44	11	33	0.57	23.22	Postsecondary vocational award
17-3022	Civil engineering technicians	17	22	5	29	0.26	16.49	Associate's degree
17-3023	Electrical and electronic engineering technicians	25	29	4	16	0.21	19.49	Associate's degree
17-3025	Environmental engineering technicians	13	20	7	54	0.74	17.78	Associate's degree
17-3026	Industrial engineering technicians	25	28	3	12	0.47	18.97	Associate's degree
17-3027	Mechanical engineering technicians	22	32	10	45	0.65	19.45	Associate's degree
17-3029	Engineering technicians, except drafters, all other	14	14	0	0	0.25	20.57	Associate's degree
17-3031	Surveying and mapping technicians	131	188	57	44	2.11	15.04	Moderate-term on-the-job training
19-1032	Foresters	13	11	-2	-15	1.08	20.49	Bachelor's degree
19-2031	Chemists	14	14	0	0	0.23	33.06	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	16	21	5	31	0.23	23.72	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	23	31	8	35	0.67	21.79	Master's degree
19-3021	Market research analysts	67	84	17	25	0.34	19.75	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
19-3022	Survey researchers	30	35	5	17	0.63	17.00	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	55	65	10	18	0.44	22.62	Doctoral degree
19-3032	Industrial-organizational psychologists	29	36	7	24	0.50	18.66	Master's degree
19-3039	Psychologists, all other	29	36	7	24	0.47	19.69	Master's degree
19-3051	Urban and regional planners	27	32	5	19	1.04	23.52	Master's degree
19-3099	Social scientists and related workers, all other	34	32	-2	-6	1.44	26.82	Master's degree
19-4031	Chemical technicians	18	19	1	6	0.38	18.29	Associate's degree
19-4051	Nuclear technicians	25	26	1	4	4.49	25.22	Associate's degree
19-4091	Environmental science and protection technicians, including health	30	44	14	47	1.17	21.33	Associate's degree
19-4093	Forest and conservation technicians	35	31	-4	-11	1.70	13.87	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	22	26	4	18	0.32	17.08	Master's degree
21-1012	Educational, vocational, and school counselors	184	212	28	15	0.95	21.10	Master's degree
21-1013	Marriage and family therapists	12	14	2	17	0.40	14.16	Master's degree
21-1014	Mental health counselors	17	20	3	18	0.20	14.38	Master's degree
21-1015	Rehabilitation counselors	64	76	12	19	0.60	13.68	Master's degree
21-1021	Child, family, and school social workers	240	268	28	12	1.11	14.41	Bachelor's degree
21-1022	Medical and public health social workers	46	56	10	22	0.47	19.69	Bachelor's degree
21-1023	Mental health and substance abuse social workers	26	29	3	12	0.26	10.15	Master's degree
21-1029	Social workers, all other	48	52	4	8	0.84	19.86	Bachelor's degree
21-1091	Health educators	18	21	3	17	0.37	19.79	Master's degree
21-1092	Probation officers and correctional treatment specialists	33	40	7	21	0.50	19.83	Bachelor's degree
21-1093	Social and human service assistants	66	77	11	17	0.26	11.32	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
21-1099	Community and social service specialists, all other	22	26	4	18	0.24	13.20	Bachelor's degree
21-2011	Clergy	150	177	27	18	0.77	8.46	Master's degree
21-2021	Directors, religious activities and education	69	82	13	19	0.77	8.32	Bachelor's degree
21-2099	Religious workers, all other	31	37	6	19	0.76	7.77	Bachelor's degree
23-1011	Lawyers	443	543	100	23	0.70	32.04	First professional degree
23-1023	Judges, magistrate judges, and magistrates	48	55	7	15	2.35	20.55	Degree plus work experience
23-2011	Paralegals and legal assistants	271	386	115	42	1.48	19.75	Associate's degree
23-2091	Court reporters	43	52	9	21	1.59	17.83	Postsecondary vocational award
23-2092	Law clerks	31	39	8	26	0.89	14.63	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	71	86	15	21	1.24	15.35	Moderate-term on-the-job training
23-2099	Legal support workers, all other	25	28	3	12	0.65	14.41	Bachelor's degree
25-1099	Postsecondary teachers	288	393	105	36	0.25	49.88	Doctoral degree
25-2011	Preschool teachers, except special education	239	266	27	11	0.62	12.76	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	221	262	41	19	1.58	28.26	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,111	1,304	193	17	0.93	25.97	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-2022	Middle school teachers, except special and vocational education	581	669	88	15	1.14	25.51	Bachelor's degree
25-2023	Vocational education teachers, middle school	20	23	3	15	0.60	11.30	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	740	814	74	10	0.93	25.69	Bachelor's degree
25-2032	Vocational education teachers, secondary school	121	122	1	1	1.49	30.11	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	157	191	34	22	0.94	26.40	Bachelor's degree
25-2042	Special education teachers, middle school	42	51	9	21	0.55	28.80	Bachelor's degree
25-2043	Special education teachers, secondary school	63	70	7	11	0.59	31.60	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	60	74	14	23	0.55	10.55	Bachelor's degree
25-3021	Self-enrichment education teachers	81	102	21	26	0.40	10.42	Work experience in a related field
25-3099	Teachers and instructors, all other	140	164	24	17	0.30	25.12	Bachelor's degree
25-4021	Librarians	103	113	10	10	0.88	23.00	Master's degree
25-4031	Library technicians	93	107	14	15	1.07	10.16	Postsecondary vocational award
25-9031	Instructional coordinators	81	101	20	25	0.79	24.51	Master's degree
25-9041	Teacher assistants	698	779	81	12	0.69	10.22	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	36	41	5	14	0.40	10.74	Bachelor's degree

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27-1011	Art directors	78	109	31	40	0.81	12.98	Degree plus work experience
27-1012	Craft artists	50	66	16	32	0.67	6.65	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	52	69	17	33	0.67	7.75	Long-term on-the-job training
27-1014	Multi-media artists and animators	62	87	25	40	0.66	9.85	Bachelor's degree
27-1019	Artists and related workers, all other	60	75	15	25	0.79	8.37	Long-term on-the-job training
27-1021	Commercial and industrial designers	40	52	12	30	0.70	14.25	Bachelor's degree
27-1022	Fashion designers	29	38	9	31	0.67	14.18	Associate's degree
27-1023	Floral designers	100	99	-1	-1	1.37	14.35	Moderate-term on-the-job training
27-1024	Graphic designers	162	222	60	37	0.87	14.89	Bachelor's degree
27-1025	Interior designers	57	77	20	35	0.82	18.10	Associate's degree
27-1026	Merchandise displayers and window trimmers	61	78	17	28	0.76	15.10	Moderate-term on-the-job training
27-1027	Set and exhibit designers	30	40	10	33	0.80	13.29	Bachelor's degree
27-1029	Designers, all other	30	39	9	30	0.75	13.56	Bachelor's degree
27-2011	Actors	26	35	9	35	0.38	6.77	Long-term on-the-job training
27-2012	Producers and directors	32	44	12	38	0.34	10.13	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-2021	Athletes and sports competitors	25	31	6	24	0.79	10.84	Long-term on-the-job training
27-2022	Coaches and scouts	233	272	39	17	1.59	19.19	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	23	28	5	22	0.71	8.15	Long-term on-the-job training
27-2032	Choreographers	18	20	2	11	1.02	17.44	Work experience in a related field
27-2041	Music directors and composers	87	112	25	29	0.69	6.61	Degree plus work experience
27-2042	Musicians and singers	166	262	96	58	0.92	8.34	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	44	56	12	27	0.59	7.61	Long-term on-the-job training
27-3011	Radio and television announcers	29	32	3	10	0.75	13.62	Long-term on-the-job training
27-3012	Public address system and other announcers	11	15	4	36	0.63	8.75	Long-term on-the-job training
27-3022	Reporters and correspondents	20	29	9	45	0.43	18.85	Degree plus work experience
27-3031	Public relations specialists	109	132	23	21	0.54	17.95	Bachelor's degree
27-3041	Editors	93	114	21	23	0.82	15.98	Bachelor's degree
27-3042	Technical writers	22	31	9	41	0.53	29.35	Bachelor's degree
27-3043	Writers and authors	229	298	69	30	0.79	10.16	Bachelor's degree
27-3091	Interpreters and translators	80	94	14	18	0.75	15.64	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-3099	Media and communication workers, all other	73	85	12	16	0.72	14.86	Long-term on-the-job training
27-4011	Audio and video equipment technicians	27	39	12	44	0.77	11.25	Long-term on-the-job training
27-4012	Broadcast technicians	21	23	2	10	0.71	13.91	Associate's degree
27-4021	Photographers	463	557	94	20	0.84	12.52	Long-term on-the-job training
27-4031	Camera operators, television, video, and motion picture	15	24	9	60	0.76	18.15	Moderate-term on-the-job training
27-4099	Media and communication equipment workers, all other	17	18	1	6	0.93	22.51	Moderate-term on-the-job training
29-1011	Chiropractors	44	62	18	41	1.00	25.56	First professional degree
29-1021	Dentists, general	62	70	8	13	0.88	118.81	First professional degree
29-1031	Dietitians and nutritionists	29	33	4	14	0.55	19.92	Bachelor's degree
29-1041	Optometrists	23	29	6	26	0.65	33.71	First professional degree
29-1051	Pharmacists	166	243	77	46	0.88	46.65	First professional degree
29-1069	Physicians and surgeons	496	561	65	13	0.80	72.29	First professional degree
29-1071	Physician assistants	31	37	6	19	0.60	38.17	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1081	Podiatrists	15	18	3	20	0.53	25.86	First professional degree
29-1111	Registered nurses	1,417	1,734	317	22	0.78	26.20	Associate's degree
29-1122	Occupational therapists	65	87	22	34	0.84	28.79	Master's degree
29-1123	Physical therapists	176	251	75	43	1.22	31.83	Master's degree
29-1125	Recreational therapists	14	16	2	14	0.76	14.45	Bachelor's degree
29-1126	Respiratory therapists	40	49	9	23	0.55	21.08	Associate's degree
29-1127	Speech-language pathologists	76	89	13	17	0.77	25.91	Master's degree
29-1129	Therapists, all other	19	24	5	26	0.46	16.56	Bachelor's degree
29-1131	Veterinarians	39	68	29	74	0.75	27.61	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	26	32	6	23	0.40	22.96	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	105	170	65	62	0.87	22.22	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	99	146	47	47	0.91	13.75	Associate's degree
29-2021	Dental hygienists	127	167	40	31	1.03	33.73	Associate's degree
29-2031	Cardiovascular technologists and technicians	25	32	7	28	0.70	23.11	Associate's degree
29-2032	Diagnostic medical sonographers	27	38	11	41	0.75	32.07	Associate's degree
29-2033	Nuclear medicine technologists	42	55	13	31	2.53	37.08	Associate's degree
29-2034	Radiologic technologists and technicians	197	270	73	37	1.35	23.23	Associate's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2041	Emergency medical technicians and paramedics	263	302	39	15	1.81	15.32	Postsecondary vocational award
29-2051	Dietetic technicians	39	50	11	28	2.08	7.64	Moderate-term on-the-job training
29-2052	Pharmacy technicians	239	286	47	20	1.08	11.21	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	33	33	0	0	2.40	19.66	Associate's degree
29-2055	Surgical technologists	71	87	16	23	1.13	15.87	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	28	51	23	82	0.52	14.14	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	511	644	133	26	0.96	16.98	Postsecondary vocational award
29-2071	Medical records and health information technicians	137	165	28	20	1.13	11.71	Associate's degree
29-2081	Opticians, dispensing	35	45	10	29	0.62	13.05	Long-term on-the-job training
29-2091	Orthotists and prosthetists	17	17	0	0	1.50	30.60	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	31	37	6	19	0.52	17.12	Postsecondary vocational award
29-9011	Occupational health and safety specialists	66	70	4	6	1.87	25.07	Bachelor's degree
31-1011	Home health aides	355	497	142	40	0.53	9.50	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
31-1012	Nursing aides, orderlies, and attendants	1,111	1,492	381	34	1.03	9.30	Postsecondary vocational award
31-1013	Psychiatric aides	42	55	13	31	0.43	8.99	Short-term on-the-job training
31-2011	Occupational therapist assistants	27	39	12	44	1.36	18.67	Associate's degree
31-2012	Occupational therapist aides	15	21	6	40	2.21	9.33	Short-term on-the-job training
31-2021	Physical therapist assistants	57	90	33	58	1.30	24.53	Associate's degree
31-2022	Physical therapist aides	33	51	18	55	1.00	10.79	Short-term on-the-job training
31-9011	Massage therapists	58	55	-3	-5	0.75	8.50	Postsecondary vocational award
31-9091	Dental assistants	113	146	33	29	0.54	16.87	Moderate-term on-the-job training
31-9092	Medical assistants	409	564	155	38	1.26	11.48	Moderate-term on-the-job training
31-9093	Medical equipment preparers	33	41	8	24	0.80	11.62	Short-term on-the-job training
31-9094	Medical transcriptionists	46	56	10	22	0.64	12.79	Postsecondary vocational award
31-9095	Pharmacy aides	38	46	8	21	0.85	9.45	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	45	68	23	51	0.73	9.43	Short-term on-the-job training
31-9099	Healthcare support workers, all other	50	71	21	42	0.34	13.92	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-1011	First-line supervisors/managers of correctional officers	35	41	6	17	0.99	25.98	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	89	100	11	12	1.32	20.96	Work experience in a related field
33-1021	First-line supervisors/managers of fire fighting and prevention workers	46	54	8	17	1.08	28.34	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	26	27	1	4	0.67	17.84	Work experience in a related field
33-2011	Fire fighters	415	484	69	17	1.99	16.32	Long-term on-the-job training
33-2021	Fire inspectors and investigators	14	16	2	14	1.21	28.34	Work experience in a related field
33-3011	Bailiffs	20	24	4	20	1.33	12.94	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	423	522	99	23	1.41	16.05	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	40	44	4	10	0.52	17.90	Work experience in a related field
33-3041	Parking enforcement workers	10	12	2	20	1.15	19.72	Short-term on-the-job training
33-3051	Police and sheriff's patrol officers	357	419	62	17	0.83	17.19	Long-term on-the-job training
33-9011	Animal control workers	16	18	2	13	1.31	19.32	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-9021	Private detectives and investigators	77	84	7	9	1.47	19.37	Work experience in a related field
33-9032	Security guards	556	530	-26	-5	0.72	11.42	Short-term on-the-job training
33-9091	Crossing guards	27	29	2	7	0.53	8.47	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	43	46	3	7	0.52	7.34	Short-term on-the-job training
33-9099	Protective service workers, all other	52	57	5	10	0.85	16.31	Short-term on-the-job training
35-1011	Chefs and head cooks	148	155	7	5	1.61	20.36	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	759	798	39	5	1.19	12.71	Work experience in a related field
35-2011	Cooks, fast food	768	747	-21	-3	1.80	7.20	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	344	426	82	24	1.17	8.13	Moderate-term on-the-job training
35-2013	Cooks, private household	11	14	3	27	0.79	8.22	Long-term on-the-job training
35-2014	Cooks, restaurant	988	1,005	17	2	1.52	11.27	Long-term on-the-job training
35-2015	Cooks, short order	689	686	-3	0	5.03	8.53	Short-term on-the-job training
35-2019	Cooks, all other	13	17	4	31	0.65	10.22	Moderate-term on-the-job training
35-2021	Food preparation workers	926	1,047	121	13	1.41	8.90	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
35-3011	Bartenders	469	503	34	7	1.22	7.55	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	1,371	1,479	108	8	0.72	7.33	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	956	1,031	75	8	2.40	7.65	Short-term on-the-job training
35-3031	Waiters and waitresses	3,016	3,074	58	2	1.73	7.24	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	214	238	24	11	1.57	9.29	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	726	754	28	4	2.44	8.28	Short-term on-the-job training
35-9021	Dishwashers	591	608	17	3	1.56	7.85	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	549	555	6	1	2.14	8.44	Short-term on-the-job training
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	428	475	47	11	1.55	11.24	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	348	401	53	15	3.19	18.22	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,490	1,698	208	14	0.90	9.29	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	3,210	3,273	63	2	2.07	8.10	Short-term on-the-job training
37-2019	Building cleaning workers, all other	426	528	102	24	1.16	7.64	Short-term on-the-job training
37-2021	Pest control workers	288	374	86	30	4.15	14.96	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	2,873	3,369	496	17	3.75	11.40	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	90	111	21	23	1.18	7.63	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	82	101	19	23	1.04	7.59	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	77	95	18	23	1.08	6.77	Short-term on-the-job training
39-1011	Gaming supervisors	23	29	6	26	0.67	7.03	Work experience in a related field
39-1012	Slot key persons	20	24	4	20	0.76	6.74	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	209	216	7	3	1.16	12.13	Work experience in a related field
39-2011	Animal trainers	48	46	-2	-4	0.68	7.21	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	293	280	-13	-4	1.05	8.26	Short-term on-the-job training
39-3011	Gaming dealers	13	17	4	31	0.21	8.53	Postsecondary vocational award
39-3012	Gaming and sports book writers and runners	32	36	4	13	1.97	9.29	Short-term on-the-job training
39-3021	Motion picture projectionists	33	32	-1	-3	3.48	10.44	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	36	45	9	25	0.47	6.97	Short-term on-the-job training
39-3091	Amusement and recreation attendants	512	511	-1	0	2.84	8.87	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
39-3099	Entertainment attendants and related workers, all other	44	50	6	14	1.23	10.09	Moderate-term on-the-job training
39-4021	Funeral attendants	33	37	4	12	1.34	12.85	Short-term on-the-job training
39-5011	Barbers	24	17	-7	-29	0.63	6.88	Postsecondary vocational award
39-5012	Hairdressers, hairstylists, and cosmetologists	368	330	-38	-10	0.90	12.31	Postsecondary vocational award
39-5092	Manicurists and pedicurists	52	54	2	4	1.09	11.18	Postsecondary vocational award
39-5094	Skin care specialists	14	13	-1	-7	0.49	10.29	Postsecondary vocational award
39-6011	Baggage porters and bellhops	27	21	-6	-22	0.73	8.99	Short-term on-the-job training
39-6012	Concierges	16	15	-1	-6	1.02	11.68	Moderate-term on-the-job training
39-6021	Tour guides and escorts	20	22	2	10	0.61	7.98	Moderate-term on-the-job training
39-6022	Travel guides	12	15	3	25	0.93	8.99	Moderate-term on-the-job training
39-9011	Child care workers	1,021	1,185	164	16	0.76	7.53	Short-term on-the-job training
39-9021	Personal and home care aides	430	560	130	30	0.63	9.09	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
39-9031	Fitness trainers and aerobics instructors	193	208	15	8	0.97	11.83	Postsecondary vocational award
39-9032	Recreation workers	232	263	31	13	0.91	8.91	Short-term on-the-job training
39-9041	Residential advisors	17	21	4	24	0.42	11.80	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	71	53	-18	-25	0.75	8.58	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	1,961	2,270	309	16	1.18	14.28	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	494	623	129	26	0.73	18.19	Work experience in a related field
41-2011	Cashiers, except gaming	3,465	3,617	152	4	1.32	8.22	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	29	37	8	28	0.63	15.51	Short-term on-the-job training
41-2021	Counter and rental clerks	450	504	54	12	1.31	9.83	Short-term on-the-job training
41-2022	Parts salespersons	119	127	8	7	0.70	12.96	Moderate-term on-the-job training
41-2031	Retail salespersons	4,124	4,730	606	15	1.13	9.88	Short-term on-the-job training
41-3011	Advertising sales agents	169	253	84	50	1.04	20.60	Moderate-term on-the-job training
41-3021	Insurance sales agents	462	559	97	21	0.85	14.43	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	400	538	138	35	0.79	14.83	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
41-3041	Travel agents	60	57	-3	-5	0.71	7.95	Postsecondary vocational award
41-3099	Sales representatives, services, all other	261	334	73	28	0.47	12.68	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	188	255	67	36	0.49	28.83	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	649	870	221	34	0.54	20.60	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	45	59	14	31	0.49	11.80	Moderate-term on-the-job training
41-9012	Models	21	27	6	29	0.63	7.01	Moderate-term on-the-job training
41-9021	Real estate brokers	1,792	2,737	945	53	1.42	11.10	Work experience in a related field
41-9022	Real estate sales agents	2,311	3,342	1,031	45	1.71	12.66	Postsecondary vocational award
41-9031	Sales engineers	11	15	4	36	0.19	36.28	Bachelor's degree
41-9041	Telemarketers	204	209	5	2	0.76	10.71	Short-term on-the-job training
41-9091	Door-to-door sales workers, news and street vendors, and related workers	558	761	203	36	0.67	6.60	Short-term on-the-job training
41-9099	Sales and related workers, all other	177	215	38	21	0.69	8.14	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-1011	First-line supervisors/managers of office and administrative support workers	961	1,060	99	10	0.86	17.85	Work experience in a related field
43-2011	Switchboard operators, including answering service	108	100	-8	-7	0.90	10.76	Short-term on-the-job training
43-2021	Telephone operators	21	15	-6	-29	0.94	12.41	Short-term on-the-job training
43-3011	Bill and account collectors	158	196	38	24	0.52	11.51	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	298	334	36	12	0.76	13.20	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	1,298	1,527	229	18	0.79	12.61	Moderate-term on-the-job training
43-3051	Payroll and timekeeping clerks	200	207	7	4	1.32	11.75	Moderate-term on-the-job training
43-3061	Procurement clerks	31	29	-2	-6	0.54	14.34	Short-term on-the-job training
43-3071	Tellers	443	498	55	12	0.98	11.94	Short-term on-the-job training
43-4011	Brokerage clerks	41	45	4	10	0.75	16.75	Moderate-term on-the-job training
43-4031	Court, municipal, and license clerks	107	125	18	17	1.32	12.98	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	33	30	-3	-9	0.65	15.19	Short-term on-the-job training
43-4051	Customer service representatives	1,032	1,323	291	28	0.62	14.41	Moderate-term on-the-job training
43-4071	File clerks	86	65	-21	-24	0.51	10.46	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-4081	Hotel, motel, and resort desk clerks	442	335	-107	-24	2.67	9.94	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	142	173	31	22	0.77	11.33	Short-term on-the-job training
43-4121	Library assistants, clerical	27	31	4	15	0.32	9.93	Short-term on-the-job training
43-4131	Loan interviewers and clerks	66	65	-1	-2	0.36	17.34	Short-term on-the-job training
43-4141	New accounts clerks	30	26	-4	-13	0.45	15.55	Work experience in a related field
43-4151	Order clerks	90	76	-14	-16	0.48	12.85	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	83	91	8	10	0.68	16.63	Short-term on-the-job training
43-4171	Receptionists and information clerks	854	1,048	194	23	1.01	11.36	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	64	41	-23	-36	0.51	9.98	Short-term on-the-job training
43-4199	Information and record clerks, all other	26	21	-5	-19	0.15	13.93	Short-term on-the-job training
43-5021	Couriers and messengers	156	200	44	28	0.69	7.53	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	108	129	21	19	1.51	13.49	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	73	77	4	5	0.52	16.09	Moderate-term on-the-job training
43-5041	Meter readers, utilities	49	47	-2	-4	1.37	16.35	Short-term on-the-job training
43-5051	Postal service clerks	68	65	-3	-4	1.19	21.75	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-5052	Postal service mail carriers	210	200	-10	-5	0.84	20.45	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	27	24	-3	-11	0.19	15.54	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	68	78	10	15	0.33	17.09	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	225	254	29	13	0.41	12.23	Short-term on-the-job training
43-5081	Stock clerks and order fillers	1,053	1,064	11	1	0.79	9.60	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	44	39	-5	-11	0.76	10.79	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	763	917	154	20	0.61	15.97	Moderate-term on-the-job training
43-6012	Legal secretaries	209	284	75	36	0.80	12.81	Postsecondary vocational award
43-6013	Medical secretaries	288	359	71	25	0.76	11.71	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,492	1,589	97	7	0.97	13.03	Moderate-term on-the-job training
43-9011	Computer operators	19	17	-2	-11	0.21	14.93	Moderate-term on-the-job training
43-9021	Data entry keyers	98	109	11	11	0.39	9.80	Moderate-term on-the-job training
43-9022	Word processors and typists	65	72	7	11	0.49	7.79	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-9031	Desktop publishers	18	23	5	28	0.49	10.83	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	63	64	1	2	0.34	19.88	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	42	41	-1	-2	0.38	12.78	Short-term on-the-job training
43-9061	Office clerks, general	2,255	2,659	404	18	0.97	10.87	Short-term on-the-job training
43-9199	Office and administrative support workers, all other	69	74	5	7	0.32	13.14	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	73	72	-1	-1	1.62	25.56	Work experience in a related field
45-2011	Agricultural inspectors	12	11	-1	-8	1.07	25.12	Work experience in a related field
45-2041	Graders and sorters, agricultural products	50	53	3	6	1.21	13.82	Work experience in a related field
45-2091	Agricultural equipment operators	22	26	4	18	0.43	14.46	Moderate-term on-the-job training
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	222	268	46	21	0.44	13.07	Short-term on-the-job training
45-2093	Farmworkers, farm and ranch animals	39	49	10	26	0.55	17.13	Short-term on-the-job training
45-2099	Agricultural workers, all other	10	11	1	10	0.63	12.93	Short-term on-the-job training
45-3011	Fishers and related fishing workers	177	176	-1	-1	2.43	7.12	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
45-4011	Forest and conservation workers	25	21	-4	-16	2.31	18.20	Moderate-term on-the-job training
45-4021	Fallers	41	39	-2	-5	2.61	19.78	Moderate-term on-the-job training
45-4022	Logging equipment operators	211	167	-44	-21	6.86	16.13	Moderate-term on-the-job training
45-4023	Log graders and scalers	29	31	2	7	2.05	19.77	Moderate-term on-the-job training
45-4029	Logging workers, all other	25	29	4	16	1.67	20.03	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	1,268	1,394	126	10	1.60	21.87	Work experience in a related field
47-2021	Brickmasons and blockmasons	167	171	4	2	1.48	19.59	Long-term on-the-job training
47-2022	Stonemasons	37	42	5	14	0.89	16.80	Long-term on-the-job training
47-2031	Carpenters	1,848	2,000	152	8	1.46	16.11	Long-term on-the-job training
47-2041	Carpet installers	36	41	5	14	0.77	15.38	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	33	37	4	12	1.06	15.29	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	32	36	4	13	1.17	15.59	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-2044	Tile and marble setters	89	103	14	16	1.48	15.00	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	230	232	2	1	1.39	15.42	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	25	27	2	8	2.13	16.47	Long-term on-the-job training
47-2061	Construction laborers	1,617	1,778	161	10	1.51	12.49	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	37	42	5	14	0.78	16.09	Moderate-term on-the-job training
47-2072	Pile-driver operators	27	31	4	15	1.12	14.98	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	448	504	56	13	1.39	14.14	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	98	124	26	27	0.77	17.05	Moderate-term on-the-job training
47-2082	Tapers	38	44	6	16	0.70	16.51	Moderate-term on-the-job training
47-2111	Electricians	644	545	-99	-15	1.17	14.98	Long-term on-the-job training
47-2121	Glaziers	57	69	12	21	1.35	13.81	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	98	129	31	32	4.16	15.62	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-2132	Insulation workers, mechanical	45	56	11	24	1.97	16.34	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	703	752	49	7	1.69	14.71	Moderate-term on-the-job training
47-2142	Paperhangers	14	16	2	14	0.98	15.89	Moderate-term on-the-job training
47-2151	Pipelayers	264	311	47	18	3.18	15.05	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	445	496	51	11	1.23	16.94	Long-term on-the-job training
47-2161	Plasterers and stucco masons	33	40	7	21	0.75	18.93	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	16	17	1	6	0.70	19.25	Long-term on-the-job training
47-2181	Roofers	128	154	26	20	0.93	14.41	Moderate-term on-the-job training
47-2211	Sheet metal workers	85	92	7	8	0.65	14.22	Long-term on-the-job training
47-2221	Structural iron and steel workers	27	33	6	22	0.52	18.09	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	89	88	-1	-1	2.00	12.74	Short-term on-the-job training
47-3012	Helpers, carpenters	374	383	9	2	5.23	12.72	Short-term on-the-job training
47-3013	Helpers, electricians	143	102	-41	-29	1.87	11.44	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	38	38	0	0	2.07	12.81	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	127	142	15	12	2.03	10.67	Short-term on-the-job training
47-3016	Helpers, roofers	23	27	4	17	1.32	13.37	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	28	31	3	11	1.06	9.84	Short-term on-the-job training
47-4011	Construction and building inspectors	93	123	30	32	1.00	18.80	Work experience in a related field
47-4021	Elevator installers and repairers	14	19	5	36	0.77	15.40	Long-term on-the-job training
47-4031	Fence erectors	27	32	5	19	1.01	14.03	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	64	78	14	22	2.19	16.94	Moderate-term on-the-job training
47-4051	Highway maintenance workers	21	25	4	19	0.21	13.46	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	59	69	10	17	2.83	11.15	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	13	15	2	15	0.29	17.44	Moderate-term on-the-job training
47-5021	Earth drillers, except oil and gas	10	11	1	10	—	\$—	Moderate-term on-the-job training
47-5081	Helpers, extraction workers	10	12	2	20	0.47	14.51	Short-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	387	428	41	11	1.16	22.69	Work experience in a related field

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49-2011	Computer, automated teller, and office machine repairers	41	50	9	22	0.31	15.40	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	76	85	9	12	0.50	20.40	Long-term on-the-job training
49-2096	Electronic equipment installers and repairers, motor vehicles	10	10	0	0	—	\$—	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	28	32	4	14	0.63	12.15	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	31	35	4	13	0.59	17.62	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	41	44	3	7	0.46	26.39	Postsecondary vocational award
49-3021	Automotive body and related repairers	140	174	34	24	1.01	13.96	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	11	13	2	18	0.62	14.20	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	573	683	110	19	0.93	15.37	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	119	142	23	19	0.59	13.22	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	150	167	17	11	1.58	16.71	Postsecondary vocational award
49-3051	Motorboat mechanics	78	93	15	19	3.26	13.82	Long-term on-the-job training
49-3052	Motorcycle mechanics	21	25	4	19	0.97	11.83	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-3053	Outdoor power equipment and other small engine mechanics	36	39	3	8	1.26	12.54	Moderate-term on-the-job training
49-3093	Tire repairers and changers	35	41	6	17	0.48	8.82	Short-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	49	55	6	12	1.51	14.09	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	421	453	32	8	1.69	19.40	Long-term on-the-job training
49-9031	Home appliance repairers	58	66	8	14	0.98	9.27	Long-term on-the-job training
49-9041	Industrial machinery mechanics	43	48	5	12	0.21	15.38	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	1,342	1,477	135	10	1.31	13.05	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	55	54	-1	-2	0.94	14.34	Short-term on-the-job training
49-9044	Millwrights	21	24	3	14	0.58	9.98	Long-term on-the-job training
49-9051	Electrical power-line installers and repairers	96	110	14	15	1.20	24.48	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	147	146	-1	-1	1.12	23.25	Long-term on-the-job training
49-9062	Medical equipment repairers	26	34	8	31	0.82	19.62	Associate's degree
49-9069	Precision instrument and equipment repairers, all other	10	12	2	20	0.59	11.71	Moderate-term on-the-job training
49-9091	Coin, vending, and amusement machine servicers and repairers	46	56	10	22	0.94	13.28	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9092	Commercial divers	20	25	5	25	0.99	8.26	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	21	26	5	24	1.07	8.74	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	24	37	13	54	0.78	9.94	Moderate-term on-the-job training
49-9095	Manufactured building and mobile home installers	10	10	0	0	0.96	16.24	Moderate-term on-the-job training
49-9097	Signal and track switch repairers	21	25	4	19	0.93	9.72	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	167	191	24	14	1.48	9.46	Short-term on-the-job training
49-9099	Installation, maintenance, and repair workers, all other	71	81	10	14	0.60	12.21	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	227	230	3	1	0.45	20.25	Work experience in a related field
51-2022	Electrical and electronic equipment assemblers	14	10	-4	-29	--	--	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	15	20	5	33	0.19	11.53	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	23	22	-1	-4	0.76	16.45	Moderate-term on-the-job training
51-2092	Team assemblers	437	466	29	7	0.52	11.40	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-2099	Assemblers and fabricators, all other	37	39	2	5	0.16	13.54	Moderate-term on-the-job training
51-3011	Bakers	58	63	5	9	0.52	12.86	Long-term on-the-job training
51-3021	Butchers and meat cutters	128	129	1	1	1.35	12.47	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	36	48	12	33	0.34	9.02	Short-term on-the-job training
51-3023	Slaughterers and meat packers	35	60	25	71	0.43	7.36	Moderate-term on-the-job training
51-3092	Food batchmakers	31	41	10	32	0.42	9.23	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	10	11	1	10	0.33	11.44	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	46	48	2	4	0.46	18.11	Moderate-term on-the-job training
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	31	25	-6	-19	0.45	15.62	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	16	15	-1	-6	0.09	13.02	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	28	28	0	0	0.40	13.70	Moderate-term on-the-job training
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	20	16	-4	-20	0.44	14.92	Moderate-term on-the-job training
51-4041	Machinists	114	131	17	15	0.38	13.75	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	27	20	-7	-26	0.25	15.28	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	10	10	0	0	--	--	Moderate-term on-the-job training
51-4111	Tool and die makers	20	23	3	15	0.30	19.63	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	109	132	23	21	0.37	15.72	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	57	71	14	25	1.04	13.13	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	11	11	0	0	0.58	14.06	Moderate-term on-the-job training
51-5011	Bindery workers	18	17	-1	-6	0.39	9.28	Short-term on-the-job training
51-5021	Job printers	18	20	2	11	0.49	16.12	Long-term on-the-job training
51-5022	Prepress technicians and workers	12	12	0	0	0.25	13.96	Postsecondary vocational award
51-5023	Printing machine operators	58	64	6	10	0.38	12.87	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	340	379	39	11	1.73	8.92	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	92	98	6	7	1.75	9.41	Short-term on-the-job training
51-6031	Sewing machine operators	140	124	-16	-11	0.86	12.78	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-6041	Shoe and leather workers and repairers	12	15	3	25	0.64	7.13	Long-term on-the-job training
51-6051	Sewers, hand	49	61	12	24	0.90	6.90	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	50	63	13	26	0.71	6.94	Long-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	40	16	-24	-60	1.55	12.23	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	29	12	-17	-59	0.94	12.44	Moderate-term on-the-job training
51-6093	Upholsterers	46	57	11	24	0.63	7.32	Long-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	35	29	-6	-17	0.32	15.78	Long-term on-the-job training
51-7021	Furniture finishers	22	26	4	18	0.68	9.54	Long-term on-the-job training
51-7041	Sawing machine setters, operators, and tenders, wood	77	66	-11	-14	1.62	7.96	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	92	91	-1	-1	1.30	11.85	Moderate-term on-the-job training
51-8013	Power plant operators	41	48	7	17	1.52	29.74	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	15	15	0	0	0.46	13.46	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	90	105	15	17	1.13	14.69	Long-term on-the-job training
51-8092	Gas plant operators	58	64	6	10	5.12	21.40	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	69	62	-7	-10	1.76	16.76	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	10	11	1	10	--	--	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	26	26	0	0	0.79	9.29	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	28	29	1	4	0.28	8.65	Moderate-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	47	48	1	2	0.81	9.22	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	52	55	3	6	0.83	11.89	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	25	26	1	4	1.34	8.59	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	163	154	-9	-6	0.47	12.07	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	18	24	6	33	0.45	13.35	Postsecondary vocational award
51-9111	Packaging and filling machine operators and tenders	113	109	-4	-4	0.43	11.60	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	15	15	0	0	0.20	11.39	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	20	25	5	25	0.49	17.55	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	12	14	2	17	0.44	13.17	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9132	Photographic processing machine operators	24	16	-8	-33	0.56	8.83	Short-term on-the-job training
51-9195	Molders, shapers, and casters, except metal and plastic	23	25	2	9	0.66	14.53	Moderate-term on-the-job training
51-9197	Tire builders	58	73	15	26	3.70	14.43	Moderate-term on-the-job training
51-9198	Helpers--Production workers	197	196	-1	-1	0.52	7.38	Short-term on-the-job training
51-9199	Production workers, all other	21	22	1	5	0.10	11.16	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	81	100	19	23	0.58	19.45	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	124	148	24	19	0.75	18.78	Work experience in a related field
53-2012	Commercial pilots	19	25	6	32	0.64	23.56	Postsecondary vocational award
53-3011	Ambulance drivers and attendants, except emergency medical technicians	41	43	2	5	2.51	11.91	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	102	103	1	1	0.66	7.02	Moderate-term on-the-job training
53-3022	Bus drivers, school	493	463	-30	-6	1.41	8.12	Short-term on-the-job training
53-3031	Driver/sales workers	480	530	50	10	1.07	15.10	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-3032	Truck drivers, heavy and tractor-trailer	1,121	1,323	202	18	0.80	13.62	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	897	1,065	168	19	1.05	11.41	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	245	259	14	6	1.00	8.18	Short-term on-the-job training
53-3099	Motor vehicle operators, all other	14	16	2	14	0.24	16.31	Short-term on-the-job training
53-5021	Captains, mates, and pilots of water vessels	46	45	-1	-2	1.65	19.13	Work experience in a related field
53-5022	Motorboat operators	14	11	-3	-21	1.69	20.81	Moderate-term on-the-job training
53-6021	Parking lot attendants	38	43	5	13	0.38	9.09	Short-term on-the-job training
53-6031	Service station attendants	23	28	5	22	0.34	11.19	Short-term on-the-job training
53-6099	Transportation workers, all other	10	12	2	20	0.31	10.04	Short-term on-the-job training
53-7011	Conveyor operators and tenders	24	24	0	0	0.76	9.18	Short-term on-the-job training
53-7021	Crane and tower operators	20	22	2	10	0.57	17.00	Long-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	58	66	8	14	1.06	15.46	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	178	185	7	4	0.38	11.03	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	269	328	59	22	1.04	8.49	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	1,096	1,174	78	7	0.62	9.01	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-7063	Machine feeders and offbearers	13	11	-2	-15	0.14	8.67	Short-term on-the-job training
53-7064	Packers and packagers, hand	264	241	-23	-9	0.45	7.14	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	230	290	60	26	2.14	8.53	Short-term on-the-job training
53-7199	Material moving workers, all other	19	19	0	0	0.59	13.53	Moderate-term on-the-job training
		128,657	145,965	17,308	13		14.45	

at least
1.25 greater than \$14.45

Source: EMSI



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